This Page Is Inserted by IFW Operations and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

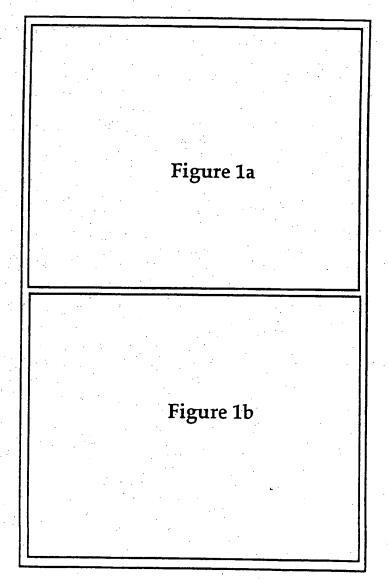
- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As-rescanning-documents-will not correct images, please do not report the images to the Image Problem Mailbox.

SUBSTITUTE DRAWINGS FIGURES 1-20(v)





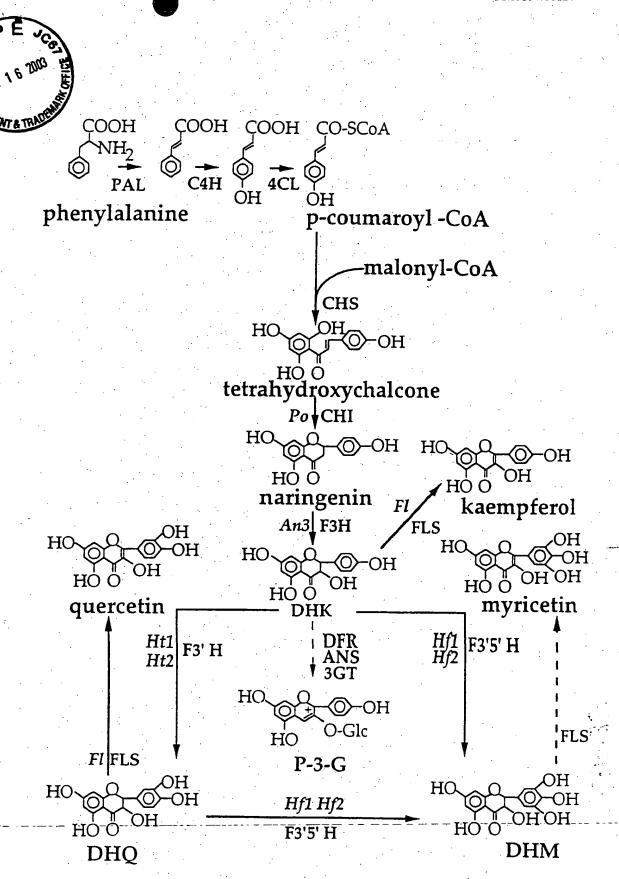
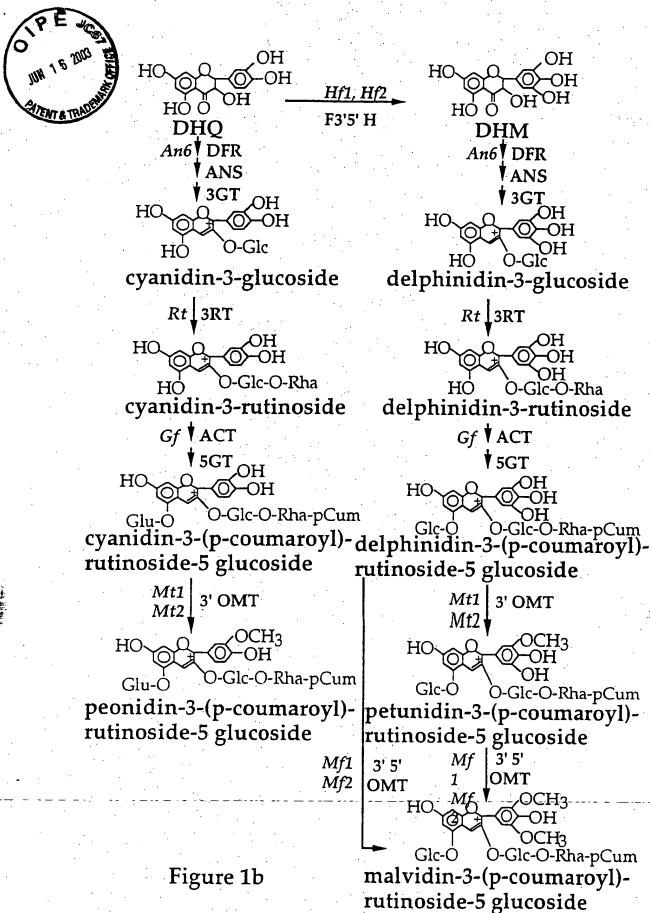


Figure 1a



· 中文學

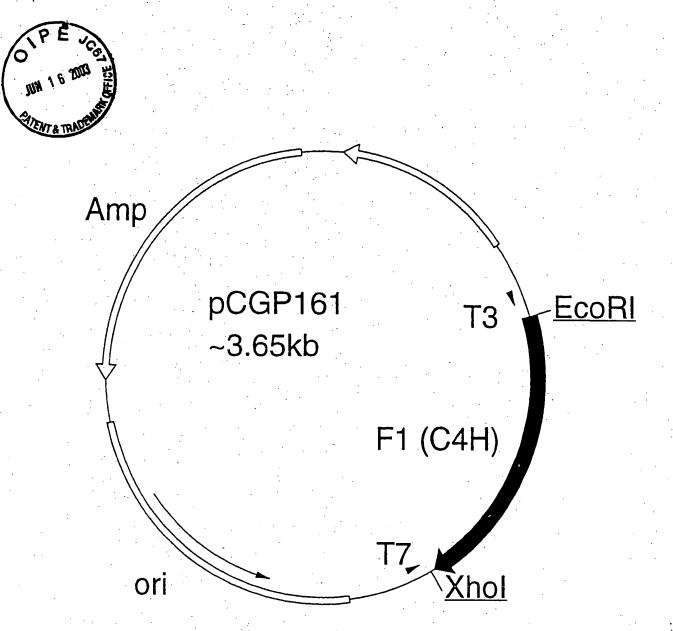


Figure 2

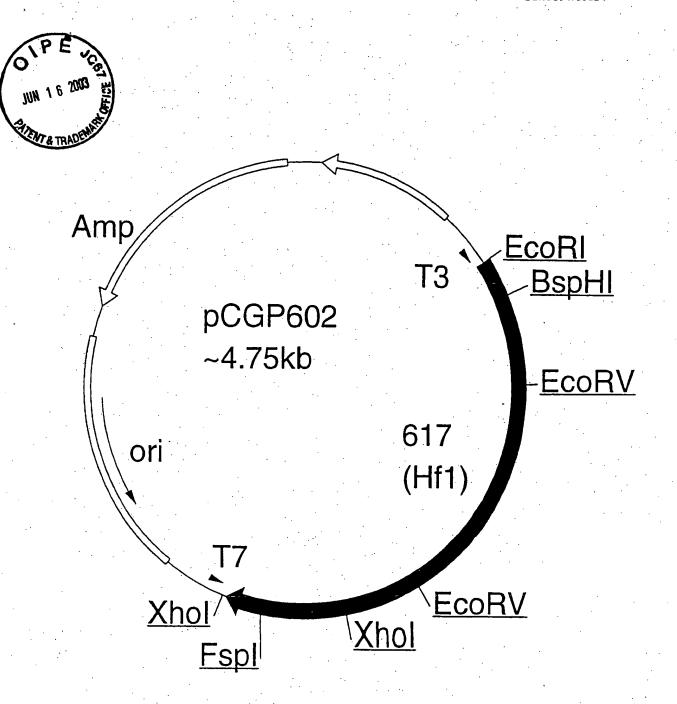


Figure 3

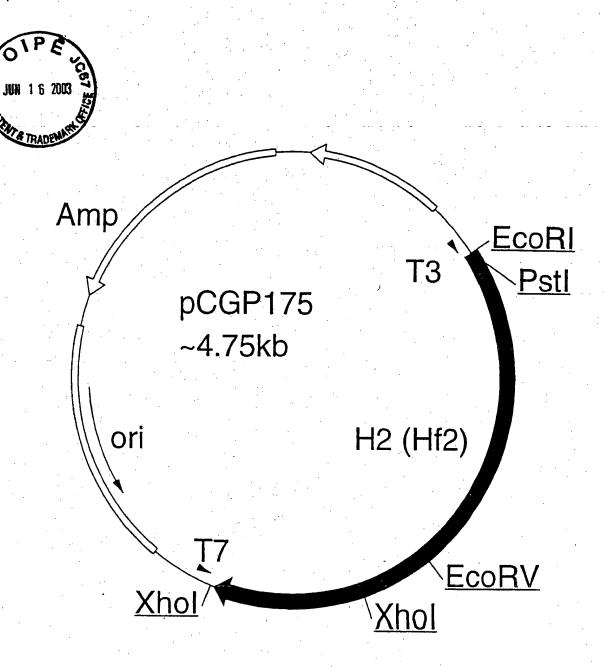
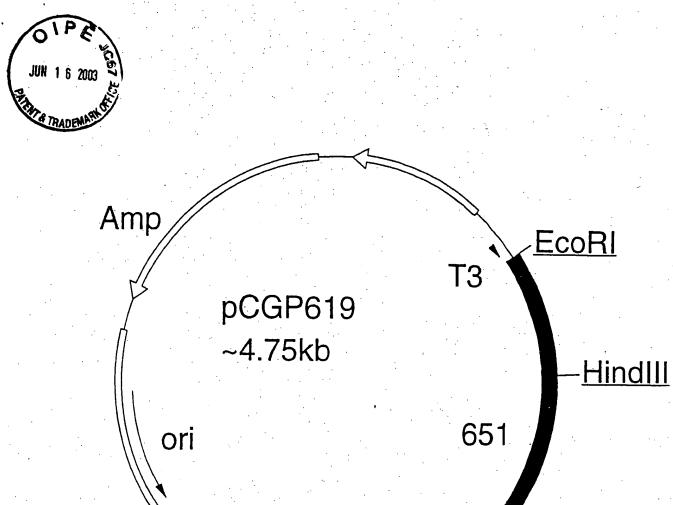


Figure 4



EcoRV

Figure 5

<u>Xhol</u>



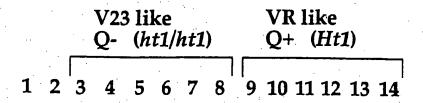




Figure 6

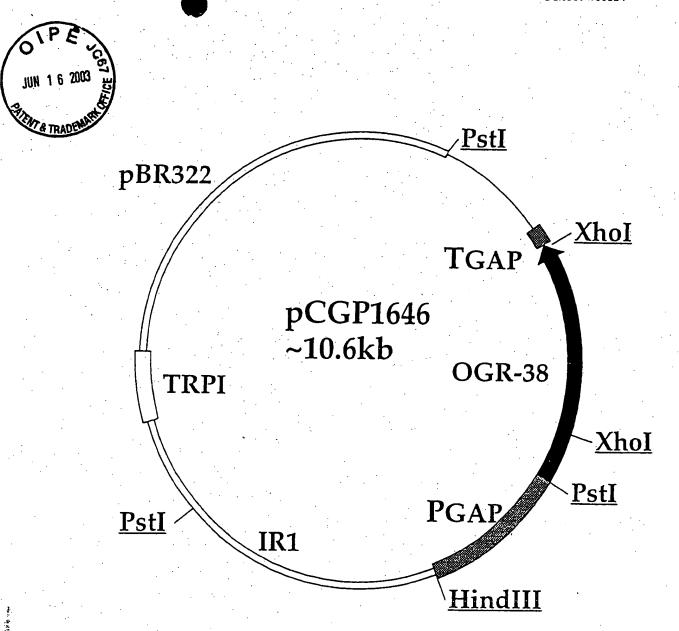


Figure 7

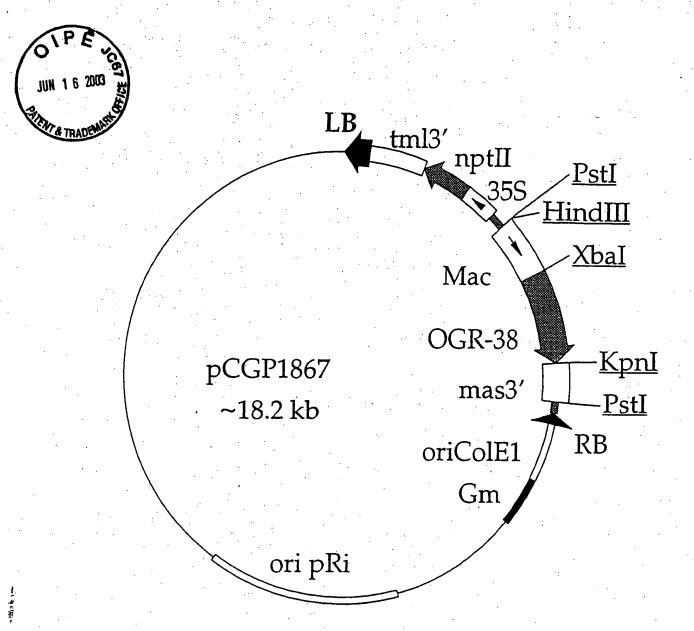


Figure 8



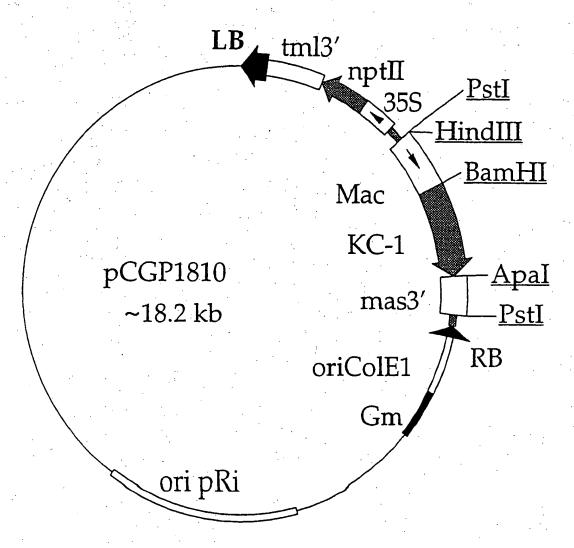


Figure 9



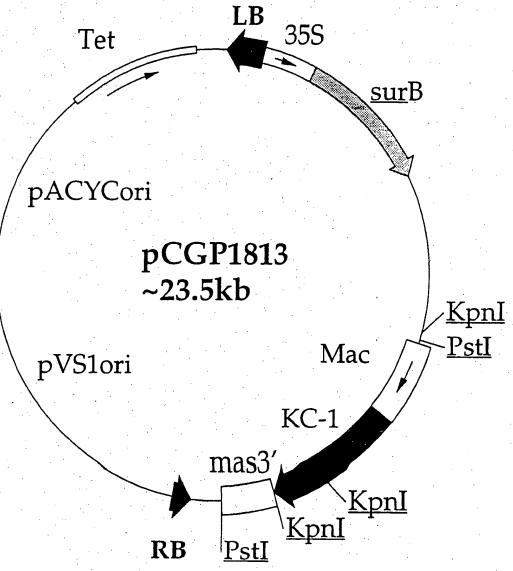


Figure 10



N	 	_							pop					
+	-	+	+	+	+	+	-	+	+	-	+	_	_	+
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

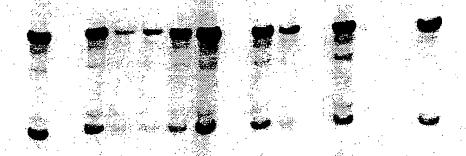


Figure 11



CYANIDIN + CYANIDIN - #1 #3 #4 #5 #8 #6 #11 #12 #13L



← 1.8 kb

Figure 12



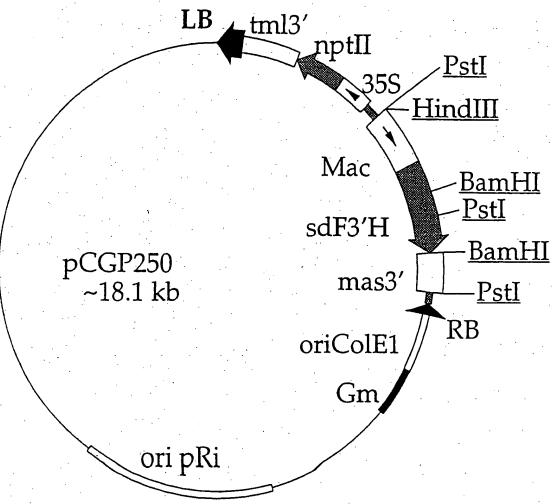


Figure 13



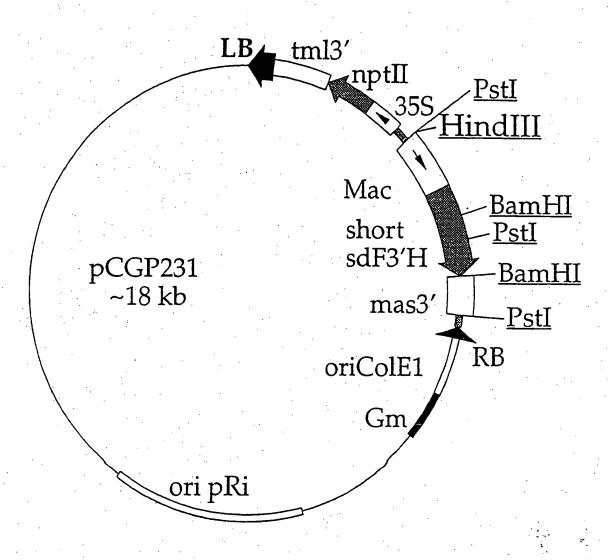


Figure 14



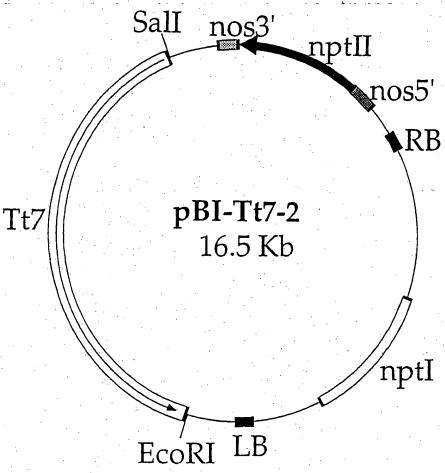


Figure 15

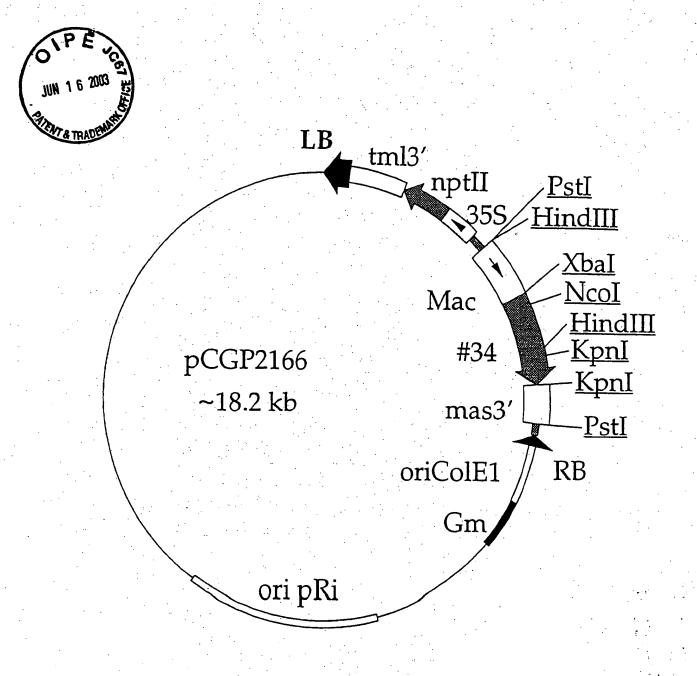


Figure 16



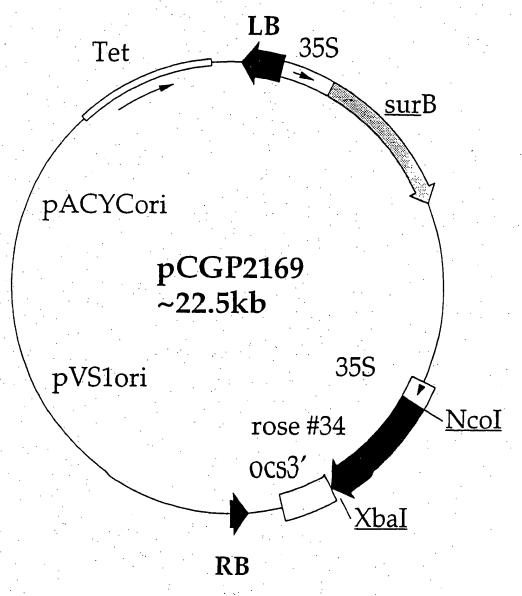


Figure 17



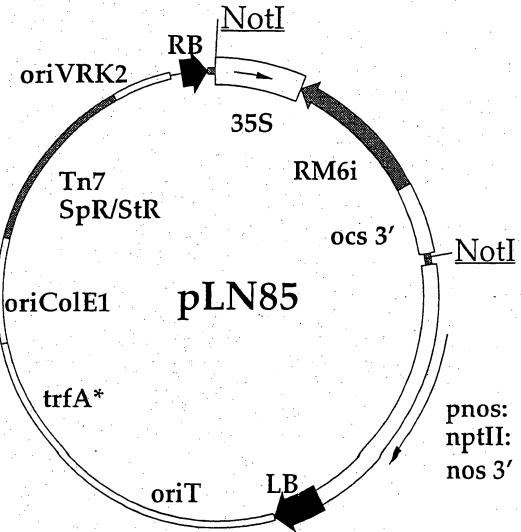


Figure 18

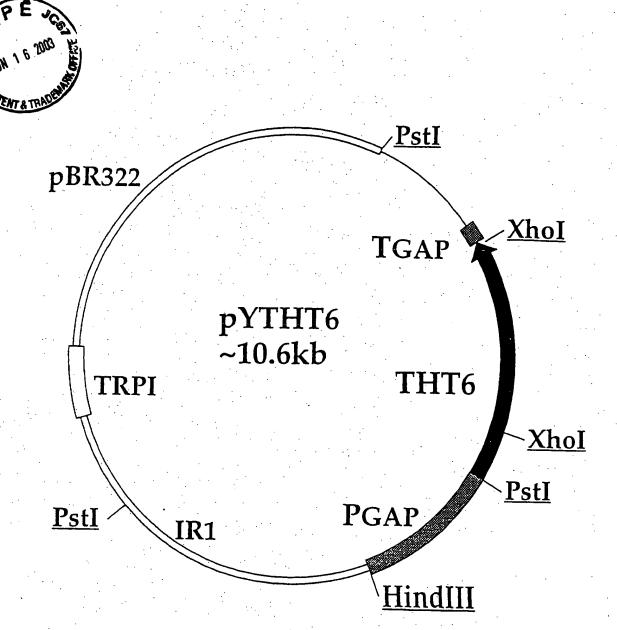


Figure 19



Figure 20 (i)

```
eilslIlytVifsflLqfiL
В
C
                   t m d d i s I t s l L v p c t F I l g f L
D
                      tlfLtilL
                                  atvlF Lil
E
                      mfliVvitflfavFLfrlL
                                                 19.
F
                     ilafVfyaLilgsvLyv
                                                 21
G
                msplalmilstlLgfllYhslrL
H
                      sltl[fct]LvfaiFLyfl
K
                    mdyvnIllgLfftwFLvngL
        sffrkRyplpLPPGPKPWPIIGNLVHL
                                                 50
                 hqkpLPPGPRPWPIVGNLPHMG
      llysflnKkvkpLPPGPKPWPIVGNLPHLG
       shrrnrshnnr LPP PGP nPWP IIGNLPHMG
                                                 50
E
       sgksqr-hslpLPPGPKPWPVV
F
        s - - - sRksarLPPCPtPWPIV
       1 f s g q g R - - r l L P P G P R P W P L V
                                                 51
           V k q R y p l p L P P G P K P W P V L G X L P H L G
H
I
                                  PILGNIPHLG
                                                 10
     mslr-rrKiskkLPPGPfPlPIIGNLhlLG
     PKPHQBLAAMAQLYGPLMYLKMGFVDVVVA
В
     qaPBQgLAALQAQkYGPLLyMRLGYVDVVA
                                                 რრ
C
     PKPHQSMAALARV h GPLIHLKMGFV h V V A
                                                 90
     t R PHRTLSAMV t t Y GPILE LRLGF V D V V V A
E
     pfPHHSIAeLAKkhCPLMHLRLGYVDVVA
                                                 78
F
     PiPOHHALALLAKKYGPLHHLRLGCVDVVV
G
     PK P Has Mae Laray G Plast KMG FVhvvva
                                                 81
H
     k K Pah Q S I A A M A e r Y G P L M R L R L G F V D V V V A
                                                 77
      SKPHQTLAeMAKLYGPLMHLKfGlkDaVVA
K
     n H P H K S L A q L A K i h G P I M N L K L G q L n t V V i
     A S A S V A a Q F L K t H D A N F S S R P P N S G A e H M A
A
   81
                                                 110
B
     ASASSVALQFLKLHDINFSSRPPNSGAKHIA
                                                 96 -
C
     SSASVA e k P L K v H D A N F S S R P P N S G A K H V
   81-
     A-SkS-V-AeQ-F-LKiH-D-AN
                                -R-P-P-N -S-G-A-
                                                 710
E
     ASASVAAQFLKIHDANF
F
     ASASVA a Q P L K V H D A N F A S R P P N S G
G
     SSAS A A E Q C L R V H D A N F 1 S R P P N S G A K H V A
                                                 111
H
     ASAAVAAQFLKVHDSNFSnRPPNSGAeHIA
                                                 107
I
     SSASVA e Q F L K k H D V N F S n R P P N S G A K H I A
J
     SSSVVArEvLQkQDlTFSnRfvpdvvHvrn 109
```



```
111
      YNYQDLVFAPYGPRWRML
В
      YNYQOLVFAPYCOPKWRMLRKICSLHMFS
                                                  126
C
   121
      YNYQDLVFAPYGPRWRMLRKICALH
                                                  150
      YNYODLVFAPYCHRWRLLRXISSVHLFS
  111
E
      YNYQDLVF PYGPRNRM fRKISSVHLFSGK
                                                  138
F
  109
      YNYQDLVFAPYGPRWRLLRKICSV
      YNYEDLVFTPXCPKWRLLRKICA[q]HIPS|v|K
G
  112
                                                  141
  108
      YNYQDLVPAPYCPRWRMLRKITSVHLPSAK
                                                  137
     YNYQDLVFAPYGPRWRLLRKICSVHLFSS
   71
J
   1
     h s d f s V V w l P v N s R W K t L R K I m n s s I P S g n
A
  141
       LDDFRHVRQD---EVktLTRALASAGqkP
      ALDDOFRIVER QEE - - - EVSILV nAIA kAGE kP
  127
C
      A LnDP PtH VXR QD - - - E V g I L T R V L A d A G e t P
      ALEDERKHVRQEE---BEVgtLTReLVrvGtkP
  141
E
      ALDDIKH V RQE - - - R V S V L A H A L A n S G s k v
  139
      ALDDFREVROR - - BVAVETRVLISAGNSP
F
  139
                                         -Gkra
G
      AMDDERRVREE - - EVAILSRALA-
H
      ALDDFCHVRQE---EVALLTRSLASAGKIP
                                                  164
  138
     ALDDF CHVR hel- - - BICILIR AI A s g G haP
I.
                                                  127
  101
J
                             r I TR S I A s A G e n P
      k L D g n Q H L R s k k v q E L i d y C Q k c A k n G e - a
  140
     V k L G Q L L N V C T T N A L A R V M L G K R V F a d G s G
A
  168
     VQLGQLLNVCTTNALSRVMLGKRVIGdctG
В
  154
     LkLGQMMNtCATNAIARVMLGRRVVGhad-
  178
      VNLCQLVNMCVVNALGREMIGRRLPG---
  168
     V N L a O L L N L C T V N A L G R V M V G R R V F G d G S G
E
  166
F
      VOLGQLINVCATNALARVMLGRRVFG-
      V p I G Q M L N V C A T N A L S R V M M G R R V V G h a d G
  167
H
  165
      VKLCQLINVCTTNALARVMLGRKVFNdGgs
I
  128
      VNLGKILGVCTTNALEARVMILGRRVFE-GdG 156
     INLGQLLGVCTTNALARVMLGRRVFGdGsG 44
     VdIGRatfgTTlNlLSntlfsKdLtN-
      d v D P Q A a E P K S M V V E M M V V A
  198
В
        DPKAEEFKdMVLELMVLTGVFNI
                                                  213
                                   G V P N L
          s K A E E P K A M V V E L M V L A
D
     daDhKADEFRSMVLEMMaLAGVFNIGDFVP
     g d D P K A D E F K S K V V E M M V L A G V F N I G
E
                                                  .225
  196
                                                  222
      g i D r s A n E F K d M V V E L M V L A G e F N L
      t n D a K A E B P K A M V V E L M V L S G V F N I G
G
                                                  226
  197
      k s D P K A E E F K S M V e E M M V L A G S F N I G D F
H
  195
I
       enPHADEPKSMVVEIMVLAGaFNLGDP
     g v D P Q A D E P K S M V V E I M V L A G a F N L G D F I P
       fsdsAkEFKeLVwnIMVeAGkpNLvDYfP
```



Figure 20 (iii)

```
qLnWLDIQGWAAKMKKLHARFDAFLTdILE
  228
     aLECLOLOCVASKMEKLHKRIDNPMSnILE
В
     PLEKLOLQGVIAXMKKLHIRFDSFLSKILG
C
    SLDWLDLQGVAGKKRLHKRFDAFLSSILK
     SLEWLDLQQVASKMKKLHKRFDdFLTaIVE
E
     VIDI f D L Q C I T k K M K K L H V R P D S F L S k I V E
\mathbf{F}
    fLEpLDLQCVASKMKKLHARFDAFLTeIVr
     VLgWfDVQGIVgKMXXLHARFDAFLntILE
                                          254
     VLDWfDLQGIAGKKKLHARFDKFLngILE
     aLDWfDLQGITAKMKKVHARPDAFLdaILE
     fLEKIDPOCIKTRMEnnfTKFlglISgLID
K
     E-RKgk----ifgemkDLLSTLISLKndda
    BHKsva---hqqnggDLLSiLISLK-dnc
В
  244
C
  264
    DHKINSS-detkgHs-DLInmLISLKdadd
    EHemNg----qdqKhtDMLSTLISLKgtdl
     DHK k G s - - - g tagh v DM LTTLL SLK - eda
E
  256
F
  253
     EHKtap - - - gglghtDL:LSTLKddad.
    ERChGqi-nnsgaHqdDLLSTLISfKgldd
H
     ENNKC vnnqhttlsKdvDfLSTLIrLKdnga
I
  217
    DRKSNgsn--gaeQyvDLLSVLISLQdsni
  105
    EHKSNgsr--gakQhvDLLSmLISLQdnni
    DRlkern - - lrdnani DV LdA Lln Isqenp
  255
    DNdg--GKLTDTEIKALLINLFVAGTDTSS
    DG--eGGKfSaTEIKALLILdLPTAGTDTSS
     ae---GGRLTDVEIKALLINKLFAAGTDTTS
  292
                                          318
    DG - - d GG s L T D T E I K A L L L N M F T A G T D T S A
D
E
    DG--eGGKLTDTEIKALLLWMFTAGTDTSS
  281
                                          308
     i e - - - GCK LTDTEIKALLUNUFAAGTDTSS
                                          305
     gd---GSRLTOTEIKALLINL1----DTTS
G
                                          308
H
  285
    DmdceeGKLTDTEIKALLLNLFTAGTDTSS
    D G g d e G t K L T D T E I K A L L LON L F i A G T D T S S
                                          274
J
  133
     DG-esGaKLTDTEIKALLLNLFTAGTDTSS
                                          161
K
    Ee----IdrNQIeqLcLdLFAAGTDTTS
     STVEWAIABLIRNPKIL a QAQQEID k VVGR
                                          340
     STLEWAIAELIRHPKILAQVQQEMDSVVGR
C
    STVEWCIABLVRHPEILAQVQKELDSVVGK
                                          348
D
  309
    STVDWAIAELIRHP dIMVKAQEELD IVVGR
E-
    STVEWATAELIRHPHMLARVQKELDdfVGH
  309
F
    STVEWALAELIRHPQILKQAREEIDaVVGQ
                                          335
    STVEWAVAELLRHPKLLaQVRQELDSVVGK
G
                                          338
     STVEWAIAELLRNPKILnQAQQELD1VVGQ
  315
    STVEWAMAELIRNPKLLVQAQEELD|r|VVG|p
     STVEWAIAELIRNPEVLVQAQQELDrVVGp
     n T L E W A M A E L L Q N P H t L q K A Q E E L a q V I G K
```



Figure 20 (iv)

•			
A	341	dRLVgElDLaQLtYLEAIVKETFRLHPSTP 370	a
	_		
В	327	druiaradiphiltyfoavvikelvrruhpstp 356) .
C	349	nRVVkBADLagLPPLQAVVXBBNPRLHPSTP 378	3
D	339	dRPVnESDIaQLPTLQAVIKBNFRLHPPTP 368	2
E	339	dRLVTESDIPNLPYLOAVIKETPRLHPSTP 368	
\mathbf{F}	336	dRIVTEIDLSQLtYLQALVKEVFRIHPSTP 365	
G	339	n R L V S E T D L n Q L P Y L Q A V V K E T P R L H P P T P 368	} .
H	345	nQLVTESDLtdLPFLQAIVKETFRLHPSTP 374	
Į	305	n R f V T E S D L p Q L t F L Q A V I K E T F R L H P S T P 334	
J	192	SRLVTESDLPQLaPLQAVIKETTRALHPSTP 221	
K	337	gKqVeEADVgrLPYLrCIVKETlRIHPAAP 366	i
Α	371	LES LEPRIASESCEINGY FIPKGSTLLLNVWA 400)
B .	357·	LS LERVAN ESCRINGY h I PKNTTLL VNVWA 386	:
		Islanda a said a la l	•
С	379	LSLPRIAMBSCEVNGY 1 I PKGSTLLVNVWA 408	
D	369	L'SLPHIASES CEINGY hIPR GSTLL UNIWA 398	:
E	369	LSIZORMAAESCEINGY hIPRGSTLLVNVWA 398	;
F	366	LSLPRISSESCEV CYYIPKCSTLLVNVWA 395	i
_			
G	369		
H	375	LSIPRMGAQGCEINGY fIPRGATLLVNVWA 404	ţ
1	335	LSLPRMAAE dCEINCY Y V S e C STLL V N V W A 364	
J	222	LSLPRMASEGCEINGYSIPKGSTLLVNVWS 25/	,
_		.	
K	367	LIIPRKV e E d v E L s t Y i I P K d S q V L V N V W A 396	,
	40.1	TOP D DOD - NO D D D D D D D D D D D D D D D D D D)
A .		TARDED naWADPLEFRPERFILPGGEKPkVDV 430	
В	401 387	IARDPEVWADPLEFKPERFLPGGEKPNVDV 416	,
			,
B C	387 409	IARDP eVWADPLEFKPERFLEGGEKPNVDV 416 IARDP nVWdEPLEFRPERFLKGGEKPNVDV 438	j -
B C D	387 409 399	IARDP eVWADPLEFKPERFLPGGEKPNVDV 416 IARDP d q W S D P L a F K P E R F L P G G E K P N V D V 438 IARDP d q W S D P L a F K P E R F L P G G E K S G V D V 428	5 3
B C D E	387 409 399 399	IARDP EVWADPLEFKPERFLPGGEKPNVDV 416 IARDP d q WSDPLEFRPERFLPGGEKPNVDV 438 ISRDP a e WADPLEFKPERFLPGGEKPNVDI 428	; ; ;
B C D	387 409 399	IARDP eVWADPLEFKPERFLPGGEKPNVDV 416 IARDP d q W S D P L a F K P E R F L P G G E K P N V D V 438 IARDP d q W S D P L a F K P E R F L P G G E K S G V D V 428	; ; ;
B C D E	387 409 399 399	IARDP EVWADPLEFKPERFLPGGEKPNVDV 416 IARDP d q WSDPLEFRPERFLPGGEKPNVDV 438 ISRDP a e WADPLEFKPERFLPGGEKPNVDI 428	5 8 8 8
B C D E F G	387 409 399 399 396 399	IARDP eVWADPLEFKPERFLPGGEKPNVDV 416 IARDP dqWSDPLEFRPERFLPGGEKPNVDV 438 IARDP a e WADPLEFKPERFLPGGEKPNVDI 428 IARDP k MWADPLEFRPSRFLPGGEKPNVDI 428 IARDP k WADPLEFRPSRFLPGGEKPNVDI 428 IARDP k WADPLEFRPSRFLPGGEKA dVDV 428	i i i i
B C D E F G H	387 409 399 399 396 399 405	IARDP eVWADPLEFKPERFLPGGEKPNVDV 416 IARDP nVWdEFLEFRPERFLRGGEKPNVDV 438 IARDP d qWSDPLaFKPERFLPGGEKSGVDV 428 ISRDP a e WADPLEFKPERFLPGGEKPNVDI 428 IARDP kWADPLEFRPSRFLPGGEKPNVDI 428 IARDP kVWADPLEFRPERFLPGGEKAdVDV 428 IARDP nVWTnPLEFNPhRFLPGGEKPNVDI 434	5 5 5 5 7
B C D E F G H I	387 409 399 399 396 399 405 365	IARDP eVWADPLEFKPERFLPGGEKPNVDV 416 IARDP nVWdEFLEFRPERFLPGGEKPNVDV 438 IARDP d qWSDPLaFKPERFLPGGEKSGVDV 428 ISRDP a e WADPLEFKPERFLPGGEKPNVDI 428 IARDP kWADPLEFRPSRFLPGGEKPNVDI 428 IARDP kVWADPLEFRPSRFLPGGEKPNVDI 428 IARDP nVWTNPLEFNPHRFLPGGEKPNVDI 434 IARDP n aWANPLEFNPHRFLPGGEKPNVDI 434 IARDP n aWANPLDFNPLRFLAGGEKPNVDV 394	t
B C D E F G H I J	387 409 399 399 396 399 405	IARDP eVWADPLEFKPERFLPGGEKPNVDV 416 IARDP nVWdEFLEFRPERFLPGGEKPNVDV 438 IARDP d qWSDPLaFKPERFLPGGEKSGVDV 428 ISRDP a e WADPLEFKPERFLPGGEKPNVDI 428 IARDP kWADPLEFRPSRFLPGGEKPNVDI 428 IARDP kVWADPLEFRPSRFLPGGEKPNVDI 428 IARDP nVWTnPLEFNPhRFLPGGEKPNVDI 434 IARDP naWAnPLEFNPhRFLPGGEKPNVDI 434 IARDP naWAnPLEFRPARFLPGGEKPNVDV 394 IARDP SIWADPLEFRPARFLPGGEKPNVDV 281	t
B C D E F G H I	387 409 399 399 396 399 405 365 252	IARDP eVWADPLEFKPERFLPGGEKPNVDV 416 IARDP nVWdEFLEFRPERFLPGGEKPNVDV 438 IARDP d qWSDPLaFKPERFLPGGEKSGVDV 428 ISRDP a e WADPLEFKPERFLPGGEKPNVDI 428 IARDP kWADPLEFRPSRFLPGGEKPNVDI 428 IARDP kVWADPLEFRPSRFLPGGEKPNVDI 428 IARDP nVWTnPLEFNPhRFLPGGEKPNVDI 434 IARDP naWAnPLEFNPhRFLPGGEKPNVDI 434 IARDP naWAnPLEFRPARFLPGGEKPNVDV 394 IARDP SIWADPLEFRPARFLPGGEKPNVDV 281	
B C D E F G H I J	387 409 399 399 396 399 405 365	IARDP eVWADPLEFKPERFLPGGEKPNVDV 416 IARDP dqWSDPLEFRPERFLPGGEKPNVDV 438 IARDP a e WADPLEFKPERFLPGGEKPNVDI 428 IARDP k W ADPLEFRPSRFLPGGEKPNVDI 428 IARDP k V W ADPLEFRPSRFLPGGEKPNVDI 428 IARDP n V W T n P L E F n P h R F L P G G E K P N V D I 434 IARDP n a W A n P L D F n P h R F L P G G E K P N V D V 394 IARDP s I W A D P L E F R P B R F L P G G E K P N V D V 381	
B C D E F G H I J	387 409 399 399 396 399 405 365 252 397	I A R D P e V W A D P L E F K P E R F L P G G E K P N V D V 438 I A R D P d Q W S D P L A F K P B R F L P G G E K P N V D V 438 I S R D P a e W A D P L E F K P E R F L P G G E K S G V D V 428 I A R D P k M W A D P L E F R P S R F L P G G E K P N V D I 428 I A R D P k V W A D P L E F R P S R F L P G G E K P N V D I 428 I A R D P k V W A D P L E F R P E R P L E G G E K A D V 428 I A R D P n a W A n P L E F n P h R F L P G G E K P N V D I 434 I A R D P s I W A D P L E F R P A R F L P G G E K P N V D V 281 I G R n s d L W e n P L V F K P E R F W e s e I D I 422	
B C D E F G H I J	387 409 399 399 396 399 405 365 252	IARDP eVWADPLEFKPERFLPGGEKPNVDV 416 IARDP nVWdEFLEFRPERFLPGGEKPNVDV 438 IARDP d qWSDPLaFKPERFLPGGEKSGVDV 428 ISRDP a e WADPLEFKPERFLPGGEKPNVDI 428 IARDP kWADPLEFRPSRFLPGGEKPNVDI 428 IARDP kVWADPLEFRPSRFLPGGEKPNVDI 428 IARDP nVWTnPLEFNPhRFLPGGEKPNVDI 434 IARDP naWAnPLEFNPhRFLPGGEKPNVDI 434 IARDP naWAnPLEFRPARFLPGGEKPNVDV 394 IARDP SIWADPLEFRPARFLPGGEKPNVDV 281	
B C D E F G H I J K	387 409 399 399 396 399 405 365 252 397	IARDP eVWADPLEFKPERFLPGGEKPNVDV 416 IARDP nVWdEFLEFRPERFLPGGEKPNVDV 438 IARDP d qWSDPLEFRPERFLPGGEKSGVDV 428 ISRDP a e WADPLEFKPERFLPGGEKPNVDI 428 IARDP k MWADPLEFRPSRFLPGGEKPNVDI 428 IARDP k VWADPLEFRPSRFLPGGEKPNVDI 425 IARDP n VWTnPLEFRPERFLPGGEKPNVDI 434 IARDP n aWAnPLDFnPtRFLPGGEKPNVDI 434 IARDP n aWAnPLDFnPtRFLPGGEKPNVDV 394 IARDP SIWADPLEFRPARFLPGGEKPNVDV 281 IGRNS dLWenPLVFKPERFWes e I D I 422	
B C D E F G H I J K A B	387 409 399 399 396 399 405 365 252 397 431 417	I A R D P e V W A D P L E F K P E R F L P G G E K P N V D V 438 I A R D P n V W d E P L E F R P E R F L P G G E K P N V D V 438 I A R D P d q W S D P L a F K P E R F L P G G E K S G V D V 428 I S R D P a e W A D P L E F R P S R F L P G G E K P N V D I 428 I A R D P k M W A D P L E F R P S R F L P G G E K P N V D I 428 I A R D P k V W A D P L E F R P E R F L E G G E K A D V 427 I A R D P n V W T n P L E F n P h R F L P G G E K P N V D I 434 I A R D P S I W A D P L E F R P A R F L P G G E K P N V D V 394 I A R D P S I W A D P L E F R P A R F L P G G E K P N V D V 281 I G R n S d L W E n P L V F K P E R F W E S E I D I 422 R G N D F E V I P F G A G R R I C A G M n L G I R M V Q L M 446 K G N D F E L I P P G A G R R I C A G L S L G L R M V Q L M 446	
BCDEFGHIJK ABC	387 409 399 399 396 399 405 365 252 397 431 417 439	IARDP eVWADPLEFKPERFLPGGEKPNVDV 438 IARDP d qWSDPLEFKPERFLPGGEKPNVDV 438 IARDP d qWSDPLEFKPERFLPGGEKSGVDV 428 ISRDP a e WADPLEFKPERFLPGGEKPNVDI 428 IARDP k MWADPLEFRPSRFLPGGEKPNVDI 428 IARDP k VWADPLEFRPERFLPGGEKPNVDI 428 IARDP n VWT n PLEF n Ph R F L P G G E K P N V D I 434 IARDP n a WA n P L D F n P L R F L B G G E K P N V D V 394 IARDP s I WADPLEFR P A R F L P G G E K P N V D V 281 I G R n S d L W e n P L V F K P E R F W e S e I D I 422 R G N D F E L I P F G A G R R I C A G M n L G I R M V Q L M 446 R G N D F E L I P F G A G R R I C A G M S L G I R M V Q L M 446	
BCDE FGHIJK ABCD	387 409 399 399 396 399 405 365 252 397 431 417 439 429	IARDP eVWADPLEFKPERFLPGGEKPNVDV 438 IARDP d qWSDPLaFKPERFLPGGEKPNVDV 428 ISRDP a e WADPLEFKPERFLPGGEKPNVDI 428 IARDP k MWADPLEFRPERFLPGGEKPNVDI 428 IARDP k WWADPLEFRPERFLPGGEKPNVDI 428 IARDP k VWADPLEFRPERFLPGGEKPNVDI 428 IARDP n VWT n PLEF n Ph R F L P G G E K P N V D I 434 IARDP n a WA n P L D F n P h R F L P G G E K P N V D V 394 IARDP s I WADPLEFR P A R F L P G G E K P N V D V 281 I G R n s d L W e n P L V F K P E R F W e s e I D I 422 R G N D F E L I P F G A G R R I C A G M n L G I R M V Q L M 446 R G N D F E L I P F G A G R R I C A G M S L G I R M V Q L M 468 K G S D F E L I P F G A G R R I C A G M S L G I R M V Q L M 468	
B C D E F G H I J K A B C D E	387 409 399 399 396 399 405 365 252 397 431 417 439	IARDP eVWADPLEFKPERFLPGGEKPNVDV 438 IARDP d qWSDPLEFKPERFLPGGEKPNVDV 438 IARDP d qWSDPLEFKPERFLPGGEKSGVDV 428 ISRDP a e WADPLEFKPERFLPGGEKPNVDI 428 IARDP k MWADPLEFRPSRFLPGGEKPNVDI 428 IARDP k VWADPLEFRPERFLPGGEKPNVDI 428 IARDP n VWT n PLEF n Ph R F L P G G E K P N V D I 434 IARDP n a WA n P L D F n P L R F L B G G E K P N V D V 394 IARDP s I WADPLEFR P A R F L P G G E K P N V D V 281 I G R n S d L W e n P L V F K P E R F W e S e I D I 422 R G N D F E L I P F G A G R R I C A G M n L G I R M V Q L M 446 R G N D F E L I P F G A G R R I C A G M S L G I R M V Q L M 446	
BCDE FGHIJK ABCD	387 409 399 399 396 399 405 365 252 397 431 417 439 429	IARDP eVWADPLEFKPERFLPGGEKPNVDV 438 IARDP d qWSDPLaFKPERFLPGGEKPNVDV 428 ISRDP a e WADPLEFKPERFLPGGEKPNVDI 428 IARDP k MWADPLEFRPERFLPGGEKPNVDI 428 IARDP k WWADPLEFRPERFLPGGEKPNVDI 428 IARDP k VWADPLEFRPERFLPGGEKPNVDI 428 IARDP n VWT n PLEF n Ph R F L P G G E K P N V D I 434 IARDP n a WA n P L D F n P h R F L P G G E K P N V D V 394 IARDP s I WADPLEFR P A R F L P G G E K P N V D V 281 I G R n s d L W e n P L V F K P E R F W e s e I D I 422 R G N D F E L I P F G A G R R I C A G M n L G I R M V Q L M 446 R G N D F E L I P F G A G R R I C A G M S L G I R M V Q L M 468 K G S D F E L I P F G A G R R I C A G M S L G I R M V Q L M 468	
BCDE FGHIJK ABCDEF	387 409 399 399 396 399 405 365 252 397 431 417 439 429 429 426	IARDP e V WADPLEFKPERFLPGGEKPN V D V 416 IARDP n V W d E P L E F R P E R P L k G G E K P N V D V 438 IARDP d q W S D P L a F K P E R F L P G G E K S G V D V 428 ISRDP a e W A D P L E F R P E R F L P G G E K P N V D I 428 IARDP k W WADPLEFRPSRFLPGGEKPN V D I 428 IARDP k V W A D P L E F R P E R P L T G G E K A D V 428 IARDP n V W T n P L E F n P h R F L P G G E K P N V D I 434 IARDP n a W A n P L E F R P B R F L P G G E K P N V D V 394 IARDP n a W A n P L D P n P T R P L A G G E K P N V D V 281 I G R n S d L W e n P L V F K P E R F W e S e I D I 422 R G N D F E L I P F G A G R R I C A G M S L G L R M V Q L M 446 R G N D F E L I P F G A G R R I C A G M S L G L R M V Q L M 446 R G N D F E L I P F G A G R R I C A G M S L G L R M V Q L L 458 R G N D F E L I P F G A G R R I C A G M S L G L R M V Q L L 458 R G N D F E V I P F G A G R R I C A G M S L G L R M V Q L L 458 R G N D F E V I P F G A G R R I C A G M S L G L R M V Q L L 458 R G N D F E V I P F G A G R R I C A G M S L G L R M V Q L L 458 R G N D F E V I P F G A G R R I C A G M S L G L R M V Q L L 458 R G N D F E V I P F G A G R R I C A G M S L G L R M V Q L L 458 R G N D F E V I P F G A G R R I C A G M S L G L R M V Q L L 458	
BCDE FGHIJK ABCDE FG	387 409 399 399 396 399 405 365 252 397 431 417 439 429 426 429	I A R D P e V W A D P L E F K P E R F L P G G E K P N V D V 416 I A R D P n V W d E F L E F R P B R F L K G G E K P N V D V 438 I A R D P d q W S D P L A F K P E R F L P G G E K S G V D V 428 I S R D P a e W A D P L E F R P S R F L P G G E K P N V D I 428 I A R D P k W M A D P L E F R P S R F L P G G E K P N V D I 428 I A R D P n V W T n P L E F n P h R F L P G G E K P N V D I 434 I A R D P n a W A n P L D P n P L R F L A G G E K P N V D V 394 I A R D P s I W A D P L E F R P A R F L P G G E K P N V D V 281 I G R n S d L W e n P L V F K P E R F W e S e I D I 422 R G N D F E L I P F G A G R R I C A G M n L G I R M V Q L M 446 R G N D F E L I P F G A G R R I C A G M S L G L R M V Q L M 446 R G N D F E L I P F G A G R R I C A G M S L G L R M V Q L L 468 K G S D F E L I P F G A G R R I C A G M S L G L R M V Q L L 458 R G N D F E V I P F G A G R R I C A G M S L G L R M V Q L L 458 R G N D F E V I P F G A G R R I C A G M S L G L R M V Q L L 458 R G N D F E V I P F G A G R R I C A G M S L G L R M V Q L L 458 R G N D F E V I P F G A G R R I C A G M S L G L R M V Q L L 458 R G N D F E V I P F G A G R R I C A G M S L G L R M V Q L L 458 R G N D F E V I P F G A G R R I C A G M S L G L R M V Q L L 458 R G N D F E V I P F G A G R R I C A G M S L G L R M V Q L L 458	
BCDE FGHIJK ABCDE FGH	387 409 399 399 396 399 405 365 252 397 431 417 439 429 429 426 429 435	I A R D P e V W A D P L E F K P E R F L P G G E K P N V D V 4/38 I A R D P d q W S D P L A F K P E R F L P G G E K P N V D V 4/38 I A R D P d q W S D P L A F K P E R F L P G G E K S G V D V 4/28 I S R D P a e W A D P L E F K P E R F L P G G E K P N V D I 4/28 I A R D P k M W A D P L E F R P S R F L P G G E K P N V D I 4/28 I A R D P k V W A D P L E F R P E R P L L G G E K A D V D V 4/28 I A R D P n V W T n P L E F n P h R F L P G G E K P N V D I 4/34 I A R D P n A W A D P L E F R P A R F L P G G E K P N V D V 3/94 I A R D P S I W A D P L E F R P A R F L P G G E K P N V D V 3/94 I A R D P S I W A D P L E F R P A R F L P G G E K P N V D V 3/94 I A R D P S I W A D P L E F R P A R F L P G G E K P N V D V 3/94 I A R D P S I W A D P L E F R P A R F L P G G E K P N V D V 3/94 I A R D P S I W A D P L E F R P A R F L P G G E K P N V D V 3/94 I A R D P S I W A D P L E F R P A R F L P G G E K P N V D V 3/94 I A R D P S I W A D P L E F R P A R F L P G G E K P N V D V 3/94 I A R D P S I W A D P L E F R P A R F L P G G E K P N V D V 3/94 I A R D P S I W A D P L E F R P A R F L P G G E K P N V D L 4/54 R G N D F E L I P F G A G R R I C A G M S L G L R M V Q L L 4/58 R G N D F E V I P F G A G R R I C A G M S L G L R M V Q L L 4/58 R G N D F E V I P F G A G R R I C A G M S L G L R M V Q L L 4/58 K G N D F E V I P F G A G R R I C A G M S L G L R M V Q L L 4/58 K G N D F E V I P F G A G R R I C A G W S L G I R M V Q L L 4/58	
BCDE FGHIJK ABCDE FGHI	387 409 399 399 396 399 405 365 252 397 431 417 439 429 426 429 435 395	I A R D P e V W A D P L E F K P E R F L P G G E K P N V D V 416 I A R D P n V W d E F L E F R P B R F L K G G E K P N V D V 438 I A R D P d q W S D P L A F K P E R F L P G G E K S G V D V 428 I S R D P a e W A D P L E F R P S R F L P G G E K P N V D I 428 I A R D P k W M A D P L E F R P S R F L P G G E K P N V D I 428 I A R D P n V W T n P L E F n P h R F L P G G E K P N V D I 434 I A R D P n a W A n P L D P n P L R F L A G G E K P N V D V 394 I A R D P s I W A D P L E F R P A R F L P G G E K P N V D V 281 I G R n S d L W e n P L V F K P E R F W e S e I D I 422 R G N D F E L I P F G A G R R I C A G M n L G I R M V Q L M 446 R G N D F E L I P F G A G R R I C A G M S L G L R M V Q L M 446 R G N D F E L I P F G A G R R I C A G M S L G L R M V Q L L 468 K G S D F E L I P F G A G R R I C A G M S L G L R M V Q L L 458 R G N D F E V I P F G A G R R I C A G M S L G L R M V Q L L 458 R G N D F E V I P F G A G R R I C A G M S L G L R M V Q L L 458 R G N D F E V I P F G A G R R I C A G M S L G L R M V Q L L 458 R G N D F E V I P F G A G R R I C A G M S L G L R M V Q L L 458 R G N D F E V I P F G A G R R I C A G M S L G L R M V Q L L 458 R G N D F E V I P F G A G R R I C A G M S L G L R M V Q L L 458 R G N D F E V I P F G A G R R I C A G M S L G L R M V Q L L 458	
BCDE FGHIJK ABCDE FGH	387 409 399 399 396 399 405 365 252 397 431 417 439 429 429 426 429 435	I A R D P e V W A D P L E F K P E R F L P G G E K P N V D V 4/38 I A R D P d q W S D P L A F K P E R F L P G G E K P N V D V 4/38 I A R D P d q W S D P L A F K P E R F L P G G E K S G V D V 4/28 I S R D P a e W A D P L E F K P E R F L P G G E K P N V D I 4/28 I A R D P k M W A D P L E F R P S R F L P G G E K P N V D I 4/28 I A R D P k V W A D P L E F R P E R P L L G G E K A D V D V 4/28 I A R D P n V W T n P L E F n P h R F L P G G E K P N V D I 4/34 I A R D P n A W A D P L E F R P A R F L P G G E K P N V D V 3/94 I A R D P S I W A D P L E F R P A R F L P G G E K P N V D V 3/94 I A R D P S I W A D P L E F R P A R F L P G G E K P N V D V 3/94 I A R D P S I W A D P L E F R P A R F L P G G E K P N V D V 3/94 I A R D P S I W A D P L E F R P A R F L P G G E K P N V D V 3/94 I A R D P S I W A D P L E F R P A R F L P G G E K P N V D V 3/94 I A R D P S I W A D P L E F R P A R F L P G G E K P N V D V 3/94 I A R D P S I W A D P L E F R P A R F L P G G E K P N V D V 3/94 I A R D P S I W A D P L E F R P A R F L P G G E K P N V D V 3/94 I A R D P S I W A D P L E F R P A R F L P G G E K P N V D L 4/54 R G N D F E L I P F G A G R R I C A G M S L G L R M V Q L L 4/58 R G N D F E V I P F G A G R R I C A G M S L G L R M V Q L L 4/58 R G N D F E V I P F G A G R R I C A G M S L G L R M V Q L L 4/58 K G N D F E V I P F G A G R R I C A G M S L G L R M V Q L L 4/58 K G N D F E V I P F G A G R R I C A G W S L G I R M V Q L L 4/58	
BCDE FGHIJK ABCDE FGHI	387 409 399 399 396 399 405 365 252 397 431 417 439 429 426 429 435 395	I A R D P e V W A D P L E P K P E R F L P G G E K P N V D V 416 I A R D P n V W d E P L E F R P B R F L K G G E K P N V D V 438 I A R D P d q W S D P L A F K P B R F L P G G E K P N V D V 428 I S R D P a e W A D P L E F R P B R F L P G G E K P N V D I 428 I A R D P k M W A D P L E F R P B R F L P G G E K P N V D I 428 I A R D P k V W A D P L E F R P B R F L P G G E K P N V D I 434 I A R D P n V W T n P L E F n P h R F L P G G E K P N V D V 428 I A R D P n A W A n P L E F R P B R F L P G G E K P N V D V 394 I A R D P S I W A D P L E F R P A R F L P G G E K P N V D V 281 I G R n S d L W e n P L V F K P E R F W e S e I D I 422 R G N D F E V I P F G A G R R I C A G M n L G I R M V Q L M 466 K G N D F E L I P F G A G R R I C A G M S L G I R M V Q L L 468 K G S D F E L I P F G A G R R I C A G M S L G L R M V Q L L 458 R G N D F E V I P F G A G R R I C A G M S L G L R M V Q L L 455 K G N D F E V I P F G A G R R I C A G M S L G I R M V Q L L 455 K G N D F E V I P F G A G R R I C A G M S L G I R M V Q L L 458 K G N D F E V I P F G A G R R I C A G M S L G I R M V Q L L 458 K G N D F E V I P F G A G R R I C A G M S L G I R M V Q L L 458 K G N D F E V I P F G A G R R I C A G M S L G I R M V Q L L 458 K G N D F E V I P F G A G R R I C A G M S L G I R M V Q L L 458 K G N D F E V I P F G A G R R I C A G M S L G I R M V H L L 464 K G N D F E V I P F G A G R R I C A G M S L G I R M V H L L 464 K G N D F E V I P F G A G R R I C A G M S L G I R M V H L L 464 K G N D F E V I P F G A G R R I C A G M S L G I R M V H L L 464	



Figure 20 (v)

. A	461	i A TLIHAF NWDLVs GqlPEMLNKEEAYCLT	49()
. B	447	TATLABTY DWaLAdGLm PEkLNAM DEAYGLT	476
C	469	TATL NHAP DfDLAdGqlPESLNKERAYGLT	498
D	459	TATLVQG POWELAGGV LPEKLNMESSYCLT	488
E	459	TATLVHAF NWALA CLIARK LENDER Y GLT	488
F	456	LATLVOTEDNELANGLEPEMLNNELAYCLT	485
G	459	TASLIRAFDID LANGLIA ON LN MERAY GLT	488
H	465	VATLVHARDW DIVNGQ S V E LL N M E E A Y G L T	494
ï	425	TASLVESFOWALI dGLkPBkLdkEEgrout	454
Ĵ	312		454 341
K	453		-
V	433	1 gSL LnSFnWkLyGGIaPkdLdMqEkFGIT	482
	40.1		.
A	491	LORAD POLVVH.PRPRLeaQaYig	512
A B	491 477	LORAD PLVVHPRPRLeaQayig	512 500
В	477	LORK V PL M V H PtrRLSaR V Ynsgf	500
B	477 499	LORKVPLMVHPtrRLSaRVYnsgf	500 512
B C D	477 499 489	LQRKVPLMVHPtrRLSaRVYnsgf LQRAdPLVVHPKPR LQRAVPLVVHPKPRLApnVYglgsg LQRAvPLVVHPRTRLApQAYktsss	500 512 513 512
B C D E F	477 499 489 489	LQRKVPLMVHPtrRLSaRVYnsgf LQRAdPLVVHPKPR LQRAVPLVVHPKPRLApnVYglgsg LQRAaPLMVHPRtRLApQaYktsss LQRAaPLMVHPRtRLApQaYktsss	500 512 513 512 508
B C D E F G	477 499 489 489 486	LQRKVPLMVHPtrRLSaRVYnsgf LQRAd PLVVHPKPR LORAVPLVVHPKPRLApnVYglgsg LQRAaPLMVHPRRLApQayktsss LQRAaPLMVHPRPRLApHVYesi LQRAePLLVHPRPRLAtHVY	500 512 513 512 508 508
B C D E F	477 499 489 489 486 489 495	LQRKVPLMVHPLTRLSaRVYnsgf LQRAdPLVVHPKPR LApnVYglgsg LQRAaPLMVHPRLRLAPQaYktsss LQRAaPLMVHPKPRLAPHVYesi LQRAePLLVHPRRRLAHVY LQRAePLLVHPRRRLAHVY	500 512 513 512 508
B C D E F G	477 499 489 489 486 489 495 455	LQRKVPLMVHPKPR LQRAdPLVVHPKPR LQRAVPLVVHPKPRLApnVYglgsg LQRAaPLMVHPKPRLApHVYesi LQRAaPLMVHPKPRLApHVYesi LQRAePLLVHPRPRLAtHVY LQRAePLLVHPRPRLAtHVY LQRAsPLMLHPKPRLAtHVY	500 512 513 512 508 508 517 476
B C D E F G	477 499 489 489 486 489 495	LQRKVPLMVHPKPR LQRAdPLVVHPKPR LQRAdPLVVHPKPRLApnVYglgsg LQRAaPLMVHPRTRLAPQaYktsss LQRAaPLMVHPKPRLAPHVYesi LQRAePLLVHPRPRLAtHVY LQRAePLLVHPRPRLAthVT LQRAsPLIVHPRPRLAthVT	500 512 513 512 508 508 517